

Ser.no. 10/073,991
Amdt dated November 27, 2003
In Reply to Office Action dated July 2, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-41 (cancelled)

42.(new) A folded fin heat sink assembly comprising at least one aluminum folded fin assembly mounted on a copper base plate, each said folded fin assembly comprising a lower web to contact said base plate, an upwardly extending fin portion, an upper web, a downwardly extending fin portion, and so on, repeating in a progressive zig-zag fashion, each said folded fin assembly being soldered to said copper base plate by means of a Sn-Zn solder.

43.(new) A folded fin heat sink assembly according to claim 42, produced by the steps of:

- (a) placing a sheet of Sn-Zn solder material on said base plate;
- (b) placing said folded fin assembly on said solder sheet, with said lower web portions thereof against said base plate and solder sheet;
- (c) heating said base plate, said folded fin assembly and said solder to a temperature exceeding the liquidus temperature of said solder and allowing said solder to flow, and
- (d) cooling said solder to form a soldered joint between said base plate and said lower web portions of said folded fin assembly.

44.(new) A folded fin heat sink assembly according to claim 43, wherein said heating is in the range of about 220-260 degrees Celsius.

45.(new) A folded fin heat sink assembly according to claim 43, wherein flux is applied to one of the group consisting of: (a) said base plate and said fins, and (b) upper and lower surfaces of said sheet of solder material, prior to the steps of claim 43.

46. (new): A folded fin heat sink assembly according to claim 42, wherein said solder comprises about 91% Sn and about 9% Zn.

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47. (new): A folded fin heat sink assembly according to claim 42, wherein said base plate is unplated.

48. (new): A folded fin heat sink assembly according to claim 42, wherein said base plate is nickel plated.